<110> Yue, Henry
       Tang, Y. Tom
       Lal, Preeti G.
       Reddy, Roopa
       Baughn, Mariah R.
       Yang, Junming
       Azimzai, Yalda

<120> FULL-LENGTH EXPRESSED GENETIC MARKERS

<130> PF-0695-2 CON

<140> To Be Assigned
<141> Herewith

<150> 09/311,894
<151> 1999-05-14

<160> 40

<170> PERL Program

<210> 1
<211> 349
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 1841446

<400> 1
Met Ala Lys Ala Gly Asp Lys Ser Ser Ser Ser Gly Lys Lys Ser
 1   5   10   15
Leu Lys Arg Lys Ala Ala Ala Glu Glu Leu Gln Glu Ala Ala Gly
                20   25   30
Ala Gly Asp Gly Ala Thr Glu Asn Gly Val Gln Pro Pro Lys Ala
                35   40   45
Ala Ala Phe Pro Pro Gly Phe Ser Ile Ser Glu Ile Lys Asn Lys
                50   55   60
Gln Arg Arg His Leu Met Phe Thr Arg Trp Lys Gln Gln Gln Arg
                65   70   75
Lys Glu Lys Leu Ala Ala Lys Lys Lys Leu Lys Lys Glu Arg Glu
                80   85   90
Ala Leu Gly Asp Lys Ala Pro Pro Lys Pro Val Pro Lys Thr Ile
                95   100   105
Asp Asn Gln Arg Val Tyr Asp Glu Thr Thr Val Asp Pro Asn Asp
                110   115   120
Glu Glu Val Ala Tyr Asp Glu Ala Thr Asp Glu Phe Ala Ser Tyr
                125   130   135
Phe Asn Lys Gln Thr Ser Pro Lys Ile Leu Ile Thr Thr Ser Asp

                                    1

```
                  140                    145                    150
Arg Pro His Gly Arg Thr Val Arg Leu Cys Glu Gln Leu Ser Thr
                  155                    160                    165
Val Ile Pro Asn Ser His Val Tyr Tyr Arg Arg Gly Leu Ala Leu
                  170                    175                    180
Lys Lys Ile Ile Pro Gln Cys Ile Ala Arg Asp Phe Thr Asp Leu
                  185                    190                    195
Ile Val Ile Asn Glu Asp Arg Lys Thr Pro Asn Gly Leu Ile Leu
                  200                    205                    210
Ser His Leu Pro Asn Gly Pro Thr Ala His Phe Lys Met Ser Ser
                  215                    220                    225
Val Arg Leu Arg Lys Glu Ile Lys Arg Arg Gly Lys Asp Pro Thr
                  230                    235                    240
Glu His Ile Pro Glu Ile Ile Leu Asn Asn Phe Thr Thr Arg Leu
                  245                    250                    255
Gly His Ser Ile Gly Arg Met Phe Ala Ser Leu Phe Pro His Asn
                  260                    265                    270
Pro Gln Phe Ile Gly Arg Gln Val Ala Thr Phe His Asn Gln Arg
                  275                    280                    285
Asp Tyr Ile Phe Phe Arg Phe His Arg Tyr Ile Phe Arg Ser Glu
                  290                    295                    300
Lys Lys Val Gly Ile Gln Glu Leu Gly Pro Arg Phe Thr Leu Lys
                  305                    310                    315
Leu Arg Ser Leu Gln Lys Gly Thr Phe Asp Ser Lys Tyr Gly Glu
                  320                    325                    330
Tyr Glu Trp Val His Lys Pro Arg Glu Met Asp Thr Ser Arg Arg
                  335                    340                    345
Lys Phe His Leu
```

<210> 2
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 1850310

<400> 2

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Met Gln Cys Leu Leu Pro Tyr Gln Ser Lys Glu Pro Ser Cys Leu
 1               5                    10                     15
Pro Pro Leu Pro Leu Asn Leu Pro Leu Pro Pro Cys Leu Cys Pro
                20                    25                     30
Leu Leu Gln Leu Asn Ala Ala Met Thr Arg Lys Glu Lys Thr Lys
                35                    40                     45
Glu Gly Gln Arg Ala Ala Gln Phe Ser Ala Gly Ala Asp Ala Gly
                50                    55                     60
Ser Gly Gly Gly Leu Ser Arg Gln Lys Asp Thr Lys Arg Pro Met
                65                    70                     75
Leu Leu Val Ile His Asp Val Val Leu Glu Leu Leu Thr Ser Ser
                80                    85                     90
```

2

```
Asp Cys His Ala Asn Pro Arg Lys Tyr Pro Thr Cys Gln Lys Ser
                95                 100                 105
Glu Val Leu Gly Val Ser Ile Tyr Val Ser Ile Cys Pro Ser Thr
               110                 115                 120
Arg Pro Arg Asp Lys Asn Lys Thr Lys Lys Arg Cys Gln Val Leu
               125                 130                 135
Glu Ala Val Leu Val Ser Lys Pro Ser Gly Ser Cys His Gln Gly
               140                 145                 150
Ser Phe Glu Ile Leu Val Pro His Val Lys Gly Asn Leu Ala Phe Thr
               155                 160                 165
Ser Ser Asn His
```

```
<210> 3
<211> 316
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 1887020

<400> 3
Met Glu Ser Asn Val Lys Val Gln Arg Gln Glu Gly Ala Lys Val
  1               5                  10                  15
Ser Leu Met Ser Pro Asp Gln Leu Arg Asn Lys Phe Pro Trp Ile
               20                  25                  30
Asn Thr Glu Gly Val Ala Leu Ala Ser Tyr Gly Met Glu Asp Glu
               35                  40                  45
Gly Trp Phe Asp Pro Trp Cys Leu Leu Gln Gly Leu Arg Arg Lys
               50                  55                  60
Val Gln Ser Leu Gly Val Leu Phe Cys Gln Gly Glu Val Thr Arg
               65                  70                  75
Phe Val Ser Ser Ser Gln Arg Met Leu Thr Thr Asp Asp Lys Ala
               80                  85                  90
Val Val Leu Lys Arg Ile His Glu Val His Val Lys Met Asp Arg
               95                 100                 105
Ser Leu Glu Tyr Gln Pro Val Glu Cys Ala Ile Val Ile Asn Ala
               110                 115                 120
Ala Gly Ala Trp Ser Ala Gln Ile Ala Ala Leu Ala Gly Val Gly
               125                 130                 135
Glu Gly Pro Pro Gly Thr Leu Gln Gly Thr Lys Leu Pro Val Glu
               140                 145                 150
Pro Arg Lys Arg Tyr Val Tyr Val Trp His Cys Pro Gln Gly Pro
               155                 160                 165
Gly Leu Glu Thr Pro Leu Val Ala Asp Thr Ser Gly Ala Tyr Phe
               170                 175                 180
Arg Arg Glu Gly Leu Gly Ser Asn Tyr Leu Gly Gly Arg Ser Pro
               185                 190                 195
Thr Glu Gln Glu Glu Pro Asp Pro Ala Asn Leu Glu Val Asp His
               200                 205                 210
```

3

```
Asp Phe Phe Gln Asp Lys Val Trp Pro His Leu Ala Leu Arg Val
                        215                 220                 225
Pro Ala Phe Glu Thr Leu Lys Val Gln Ser Ala Trp Ala Gly Tyr
                        230                 235                 240
Tyr Asp Tyr Asn Thr Phe Asp Gln Asn Gly Val Val Gly Pro His
                        245                 250                 255
Pro Leu Val Val Asn Met Tyr Phe Ala Thr Gly Phe Ser Gly His
                        260                 265                 270
Gly Leu Gln Gln Ala Pro Gly Ile Gly Arg Ala Val Ala Glu Met
                        275                 280                 285
Val Leu Lys Gly Arg Phe Gln Thr Ile Asp Leu Ser Pro Phe Leu
                        290                 295                 300
Phe Thr Arg Phe Tyr Leu Gly Glu Lys Ile Gln Glu Asn Asn Ile
                        305                 310                 315
Ile
```

```
Met Lys Ser Val Ile Tyr His Ala Leu Ser Gln Lys Glu Ala Asn
 1               5                  10                  15
Asp Ser Asp Val Gln Pro Ser Gly Ala Gln Arg Ala Glu Ala Phe
                        20                  25                  30
Val Arg Ala Phe Leu Lys Arg Ser Thr Pro Arg Met Ser Pro Gln
                        35                  40                  45
Ala Arg Glu Asp Gln Leu Gln Arg Lys Ala Val Val Leu Glu Tyr
                        50                  55                  60
Phe Thr Arg His Lys Arg Lys Glu Lys Lys Lys Lys Ala Lys Gly
                        65                  70                  75
Leu Ser Ala Arg Gln Arg Arg Glu Leu Arg Leu Phe Asp Ile Lys
                        80                  85                  90
Pro Glu Gln Gln Arg Tyr Ser Leu Phe Leu Pro Leu His Glu Leu
                        95                  100                 105
Trp Lys Gln Tyr Ile Arg Asp Leu Cys Ser Gly Leu Lys Pro Asp
                        110                 115                 120
Thr Gln Pro Gln Met Ile Gln Ala Lys Leu Leu Lys Ala Asp Leu
                        125                 130                 135
His Gly Ala Ile Ile Ser Val Thr Lys Ser Lys Cys Pro Ser Tyr
                        140                 145                 150
Val Gly Ile Thr Gly Ile Leu Leu Gln Glu Thr Lys His Ile Phe
                        155                 160                 165
Lys Ile Ile Thr Lys Glu Asp Arg Leu Lys Val Ile Pro Lys Leu
                        170                 175                 180
Asn Cys Val Phe Thr Val Glu Thr Asp Gly Phe Ile Ser Tyr Ile
```

```
                    185                    190                    195
Tyr Gly Ser Lys Phe Gln Leu Arg Ser Ser Glu Arg Ser Ala Lys
                    200                    205                    210
Lys Phe Lys Ala Lys Gly Thr Ile Asp Leu
                    215                    220
```

<210> 5
<211> 235
<212> PRT
<213> Homo sapiens

<220> -
<221> misc_feature
<223> Incyte Clone 1911910

<400> 5

```
Met Gly Ser Thr Glu Ser Ser Glu Gly Arg Arg Val Ser Phe Gly
  1               5                   10                   15
Val Asp Glu Glu Glu Arg Val Arg Val Leu Gln Gly Val Arg Leu
                 20                   25                   30
Ser Glu Asn Val Val Asn Arg Met Lys Glu Pro Ser Ser Pro Pro
                 35                   40                   45
Pro Ala Pro Thr Ser Ser Thr Phe Gly Leu Gln Asp Gly Asn Leu
                 50                   55                   60
Arg Ala Pro His Lys Glu Ser Thr Leu Pro Arg Ser Gly Ser Ser
                 65                   70                   75
Gly Gly Gln Gln Pro Ser Gly Met Lys Glu Gly Val Lys Arg Tyr
                 80                   85                   90
Glu Gln Glu His Ala Ala Ile Gln Asp Lys Leu Phe Gln Val Ala
                 95                   100                  105
Lys Arg Glu Arg Glu Ala Ala Thr Lys His Ser Lys Ala Ser Leu
                 110                  115                  120
Pro Thr Gly Glu Gly Ser Ile Ser His Glu Glu Gln Lys Ser Val
                 125                  130                  135
Arg Leu Ala Arg Glu Leu Glu Ser Arg Glu Ala Glu Leu Arg Arg
                 140                  145                  150
Arg Asp Thr Phe Tyr Lys Glu Gln Leu Glu Arg Ile Glu Arg Lys
                 155                  160                  165
Asn Ala Glu Met Tyr Lys Leu Ser Ser Glu Gln Phe His Glu Ala
                 170                  175                  180
Ala Ser Lys Met Glu Ser Thr Ile Lys Pro Arg Arg Val Glu Pro
                 185                  190                  195
Val Cys Ser Gly Leu Gln Ala Gln Ile Leu His Cys Tyr Arg Asp
                 200                  205                  210
Arg Pro His Glu Val Leu Leu Cys Ser Asp Leu Val Lys Ala Tyr
                 215                  220                  225
Gln Arg Cys Val Ser Ala Ala His Lys Gly
                 230                  235
```

```
<210> 6
<211> 487
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 1928920

<400> 6
Met Ala Ser Ser Ala Glu Gly Asp Glu Gly Thr Val Val Ala Leu
1               5                   10                  15
Ala Gly Val Leu Gln Ser Gly Phe Gln Glu Leu Ser Leu Asn Lys
                20                  25                  30
Leu Ala Thr Ser Leu Gly Ala Ser Glu Gln Ala Leu Arg Leu Ile
                35                  40                  45
Ile Ser Ile Phe Leu Gly Tyr Pro Phe Ala Leu Phe Tyr Arg His
                50                  55                  60
Tyr Leu Phe Tyr Lys Glu Thr Tyr Leu Ile His Leu Phe His Thr
            65                  70                  75
Phe Thr Gly Leu Ser Ile Ala Tyr Phe Asn Phe Gly Asn Gln Leu
                80                  85                  90
Tyr His Ser Leu Leu Cys Ile Val Leu Gln Phe Leu Ile Leu Arg
                95                  100                 105
Leu Met Gly Arg Thr Ile Thr Ala Val Leu Thr Thr Phe Cys Phe
                110                 115                 120
Gln Met Ala Tyr Leu Leu Ala Gly Tyr Tyr Tyr Thr Ala Thr Gly
                125                 130                 135
Asn Tyr Asp Ile Lys Trp Thr Met Pro His Cys Val Leu Thr Leu
                140                 145                 150
Lys Leu Ile Gly Leu Ala Val Asp Tyr Phe Asp Gly Gly Lys Asp
                155                 160                 165
Gln Asn Ser Leu Ser Ser Glu Gln Gln Lys Tyr Ala Ile Arg Gly
                170                 175                 180
Val Pro Ser Leu Leu Glu Val Ala Gly Phe Ser Tyr Phe Tyr Gly
                185                 190                 195
Ala Phe Leu Val Gly Pro Gln Phe Ser Met Asn His Tyr Met Lys
                200                 205                 210
Leu Val Gln Gly Glu Leu Ile Asp Ile Pro Gly Lys Ile Pro Asn
                215                 220                 225
Ser Ile Ile Pro Ala Leu Lys Arg Leu Ser Leu Gly Leu Phe Tyr
                230                 235                 240
Leu Val Gly Tyr Thr Leu Leu Ser Pro His Ile Thr Glu Asp Tyr
                245                 250                 255
Leu Leu Thr Glu Asp Tyr Asp Asn His Pro Phe Trp Phe Arg Cys
                260                 265                 270
Met Tyr Met Leu Ile Trp Gly Lys Phe Val Leu Tyr Lys Tyr Val
                275                 280                 285
Thr Cys Trp Leu Val Thr Glu Gly Val Cys Ile Leu Thr Gly Leu
                290                 295                 300
Gly Phe Asn Gly Phe Glu Glu Lys Gly Lys Ala Lys Trp Asp Ala
                305                 310                 315
Cys Ala Asn Met Lys Val Trp Leu Phe Glu Thr Asn Pro Arg Phe
                320                 325                 330
```

6

```
Thr Gly Thr Ile Ala Ser Phe Asn Ile Asn Thr Asn Ala Trp Val
             335                 340                 345
Ala Arg Tyr Ile Phe Lys Arg Leu Lys Phe Leu Gly Asn Lys Glu
             350                 355                 360
Leu Ser Gln Gly Leu Ser Leu Leu Phe Leu Ala Leu Trp His Gly
             365                 370                 375
Leu His Ser Gly Tyr Leu Val Cys Phe Gln Met Glu Phe Leu Ile
             380                 385                 390
Val Ile Val Glu Arg Gln Ala Ala Arg Leu Ile Gln Glu Ser Pro
             395                 400                 405
Thr Leu Ser Lys Leu Ala Ala Ile Thr Val Leu Gln Pro Phe Tyr
             410                 415                 420
Tyr Leu Val Gln Gln Thr Ile His Trp Leu Phe Met Gly Tyr Ser
             425                 430                 435
Met Thr Ala Phe Cys Leu Phe Thr Trp Asp Lys Trp Leu Lys Val
             440                 445                 450
Tyr Lys Ser Ile Tyr Phe Leu Gly His Ile Phe Phe Leu Ser Leu
             455                 460                 465
Leu Phe Ile Leu Pro Tyr Ile His Lys Ala Met Val Pro Arg Lys
             470                 475                 480
Glu Lys Leu Lys Lys Met Glu
             485
```

`<210> 7`
`<211> 212`
`<212> PRT`
`<213> Homo sapiens`

`<220>`
`<221> misc_feature`
`<223> Incyte Clone 2170846`

`<400> 7`

```
Met Ala Ala Pro Pro Gln Leu Arg Ala Leu Leu Val Val Val Asn
 1               5                  10                  15
Ala Leu Leu Arg Lys Arg Arg Tyr His Ala Ala Leu Ala Val Leu
             20                  25                  30
Lys Gly Phe Arg Asn Gly Ala Val Tyr Gly Ala Lys Ile Arg Ala
             35                  40                  45
Pro His Ala Leu Val Met Thr Phe Leu Phe Arg Asn Gly Ser Leu
             50                  55                  60
Gln Glu Lys Leu Trp Ala Ile Leu Gln Ala Thr Tyr Ile His Ser
             65                  70                  75
Trp Asn Leu Ala Arg Phe Val Phe Thr Tyr Lys Gly Leu Arg Ala
             80                  85                  90
Leu Gln Ser Tyr Ile Gln Gly Lys Thr Tyr Pro Ala His Ala Phe
             95                 100                 105
Leu Ala Ala Phe Leu Gly Gly Ile Leu Val Phe Gly Glu Asn Asn
             110                 115                 120
Asn Ile Asn Ser Gln Ile Asn Met Tyr Leu Leu Ser Arg Val Leu
             125                 130                 135
```

7

```
Phe Ala Leu Ser Arg Leu Ala Val Glu Lys Gly Tyr Ile Pro Glu
            140                 145                 150
Pro Arg Trp Asp Pro Phe Pro Leu Leu Thr Ala Val Val Trp Gly
            155                 160                 165
Leu Val Leu Trp Leu Phe Glu Tyr His Arg Ser Thr Leu Gln Pro
            170                 175                 180
Ser Leu Gln Ser Ser Met Thr Tyr Leu Tyr Glu Asp Ser Asn Val
            185                 190                 195
Trp His Asp Ile Ser Asp Phe Leu Ile Tyr Asn Lys Ser Arg Pro
            200                 205                 210
Ser Asn
```


```
<210> 8
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2176361

<400> 8
Met Ala Pro Val Arg Arg Ser Ala Lys Trp Arg Pro Gly Gly Ile
  1               5                  10                  15
Glu Ala Arg Gly Glu Gly Val Ser Thr Val Gly Tyr Arg Asn Lys
                 20                  25                  30
Asn Val Arg Gln Lys Thr Trp Arg Pro Asn His Pro Gln Ala Phe
                 35                  40                  45
Val Gly Ser Val Arg Glu Gly Gln Gly Phe Ala Phe Arg Arg Lys
                 50                  55                  60
Leu Lys Ile Gln Gln Ser Tyr Lys Lys Leu Leu Arg Lys Glu Lys
                 65                  70                  75
Lys Ala Gln Thr Ser Leu Glu Ser Gln Phe Thr Asp Arg Tyr Pro
                 80                  85                  90
Asp Asn Leu Lys His Leu Tyr Leu Ala Glu Glu Glu Arg His Arg
                 95                 100                 105
Lys Gln Ala Arg Lys Val Asp His Pro Leu Ser Glu Gln Val His
                110                 115                 120
Gln Pro Leu Leu Glu Glu Gln Cys Ser Ile Asp Glu Pro Leu Phe
                125                 130                 135
Glu Asp Gln Cys Ser Phe Asp Gln Pro Gln Pro Glu Glu Gln Cys
                140                 145                 150
Ile Lys Thr Val Asn Ser Phe Thr Ile Pro Lys Lys Asn Lys Lys
                155                 160                 165
Lys Thr Ser Asn Gln Lys Ala Gln Glu Glu Tyr Glu Gln Ile Gln
                170                 175                 180
Ala Lys Arg Ala Ala Lys Lys Gln Glu Phe Glu Arg Arg Lys Gln
                185                 190                 195
Glu Arg Glu Glu Ala Gln Arg Gln Tyr Lys Lys Lys Lys Met Gln
                200                 205                 210
Val Phe Lys Ile Leu Asn Lys Lys Thr Lys Lys Gly Gln Pro Asn
```

8

```
                    215                 220                 225
Leu Asn Val Gln Met Glu Tyr Leu Leu Gln Lys Ile Gln Glu Lys
                    230                 235                 240
Cys
```

```
<210> 9
<211> 375
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2212732

<400> 9
Met Pro Gln Glu Leu Pro Gln Ser Pro Arg Thr Arg Gln Pro Glu
 1               5                  10                  15
Pro Asp Phe Tyr Cys Val Lys Trp Ile Pro Trp Lys Gly Glu Gln
                    20                 25                  30
Thr Pro Ile Ile Thr Gln Ser Thr Asn Gly Pro Cys Pro Leu Leu
                    35                 40                  45
Ala Ile Met Asn Ile Leu Phe Leu Gln Trp Lys Val Lys Leu Pro
                    50                 55                  60
Pro Gln Lys Glu Val Ile Thr Ser Asp Glu Leu Met Ala His Leu
                    65                 70                  75
Gly Asn Cys Leu Leu Ser Ile Lys Pro Gln Glu Lys Ser Glu Gly
                    80                 85                  90
Leu Gln Leu Asn Phe Gln Gln Asn Val Asp Asp Ala Met Thr Val
                    95                 100                 105
Leu Pro Lys Leu Ala Thr Gly Leu Asp Val Asn Val Arg Phe Thr
                    110                115                 120
Gly Val Ser Asp Phe Glu Val Tyr Thr Pro Glu Cys Ser Val Phe Asp
                    125                130                 135
Leu Leu Gly Ile Pro Leu Tyr His Gly Trp Leu Val Asp Pro Gln
                    140                145                 150
Gln Ser Pro Glu Ala Val Arg Ala Val Gly Lys Leu Ser Tyr Asn
                    155                160                 165
Gln Leu Val Glu Arg Ile Ile Thr Cys Lys His Ser Ser Asp Thr
                    170                175                 180
Asn Leu Val Thr Glu Gly Leu Ile Ala Glu Gln Phe Leu Glu Thr
                    185                190                 195
Thr Ala Ala Gln Leu Thr Tyr His Gly Leu Cys Glu Leu Thr Ala
                    200                205                 210
Ala Ala Lys Glu Gly Glu Leu Ser Val Phe Phe Arg Asn Asn His
                    215                220                 225
Phe Ser Thr Met Thr Lys His Lys Ser His Leu Tyr Leu Leu Val
                    230                235                 240
Thr Asp Gln Gly Phe Leu Gln Glu Glu Gln Val Val Trp Glu Ser
                    245                250                 255
Leu His Asn Val Asp Gly Asp Ser Cys Phe Cys Asp Ser Asp Phe
                    260                265                 270
```

9

```
His Leu Ser His Ser Leu Gly Lys Gly Pro Gly Ala Glu Gly Gly
            275                 280                 285
Ser Gly Ser Pro Glu Lys Gln Leu Gln Val Asp Gln Asp Tyr Leu
            290                 295                 300
Ile Ala Leu Ser Leu Gln Gln Gln Gln Pro Arg Gly Pro Leu Gly
            305                 310                 315
Leu Thr Asp Leu Glu Leu Ala Gln Gln Leu Gln Gln Glu Glu Tyr
            320                 325                 330
Gln Gln Gln Gln Ala Ala Gln Pro Val Arg Met Arg Thr Arg Val
            335                 340                 345
Leu Ser Leu Gln Gly Arg Gly Ala Thr Ser Gly Arg Pro Ala Gly
            350                 355                 360
Glu Arg Arg Gln Arg Pro Lys His Glu Ser Asp Cys Ile Leu Leu
            365                 370                 375
```

```
<210> 10
<211> 429
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2303457

<400> 10
Met Ser Asn Arg Asn Asn Asn Lys Leu Pro Ser Asn Leu Pro Gln
 1               5                   10                  15
Leu Gln Asn Leu Ile Lys Arg Asp Pro Pro Ala Tyr Ile Glu Glu
                20                  25                  30
Phe Leu Gln Gln Tyr Asn His Tyr Lys Ser Asn Val Glu Ile Phe
                35                  40                  45
Lys Leu Gln Pro Asn Lys Pro Ser Lys Glu Leu Ala Glu Leu Val
                50                  55                  60
Met Phe Met Ala Gln Ile Ser His Cys Tyr Pro Glu Tyr Leu Val
                65                  70                  75
Asn Phe Pro Gln Glu Val Lys Asp Leu Leu Ser Cys Asn His Thr
                80                  85                  90
Val Leu Asp Pro Asp Leu Arg Met Thr Phe Cys Lys Ala Leu Ile
                95                  100                 105
Leu Leu Arg Asn Lys Asn Leu Ile Asn Pro Ser Ser Leu Leu Glu
                110                 115                 120
Leu Phe Phe Glu Leu Phe Arg Cys His Asp Lys Leu Leu Arg Lys
                125                 130                 135
Thr Leu Tyr Thr His Ile Val Thr Asp Ile Lys Asn Ile Asn Ala
                140                 145                 150
Lys His Lys Asn Asn Lys Val Asn Val Val Leu Gln Asn Phe Met
                155                 160                 165
Tyr Thr Met Leu Arg Asp Ser Asn Ala Thr Ala Ala Lys Met Ser
                170                 175                 180
Leu Asp Val Met Ile Glu Leu Tyr Arg Arg Asn Ile Trp Asn Asp
                185                 190                 195
```

10

```
Ala Lys Thr Val Asn Val Ile Thr Thr Ala Cys Phe Ser Lys Val
              200                 205                 210
Thr Lys Ile Leu Val Ala Ala Leu Thr Phe Phe Leu Gly Lys Asp
              215                 220                 225
Glu Asp Glu Lys Gln Asp Ser Asp Ser Glu Ser Glu Asp Asp Gly
              230                 235                 240
Pro Thr Ala Arg Asp Leu Leu Val Gln Tyr Ala Thr Gly Lys Lys
              245                 250                 255
Ser Ser Lys Asn Lys Lys Lys Leu Glu Lys Ala Met Lys Val Leu
              260                 265                 270
Lys Lys Gln Lys Lys Lys Lys Lys Pro Glu Val Phe Asn Phe Ser
              275                 280                 285
Ala Ile His Leu Ile His Asp Pro Gln Asp Phe Ala Glu Lys Leu
              290                 295                 300
Leu Lys Gln Leu Glu Cys Cys Lys Glu Arg Phe Glu Val Lys Met
              305                 310                 315
Met Leu Met Asn Leu Ile Ser Arg Leu Val Gly Ile His Glu Leu
              320                 325                 330
Phe Leu Phe Asn Phe Tyr Pro Phe Leu Lys Arg Phe Leu Lys Pro
              335                 340                 345
His Gln Arg Glu Val Thr Lys Ile Leu Leu Phe Val Glu Lys Asp
              350                 355                 360
Ser His His Leu Val Pro Gln Gly Phe Phe Asn Ser Trp Leu Met
              365                 370                 375
Leu Gly Glu Lys Ile Phe Phe Asn Gly Lys Lys Ser Gly Lys Met
              380                 385                 390
Leu Met Thr Val Gly Asn Leu Met Val Lys Arg Gly Val Tyr Lys
              395                 400                 405
Arg Ser Lys Val Phe Leu Gly Gly Asn Ser Val Gly Arg Asn Phe
              410                 415                 420
Phe Gln Lys Asn Pro Gly Gly Ser Ser
              425
```

<210> 11
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2317552

<400> 11

```
Met Glu Val Ala Glu Pro Ser Ser Pro Thr Glu Glu Glu Glu Glu
  1               5                   10                  15
Glu Glu Glu His Ser Ala Glu Pro Arg Pro Arg Thr Arg Ser Asn
              20                  25                  30
Pro Glu Gly Ala Glu Asp Arg Ala Val Gly Ala Gln Ala Ser Val
              35                  40                  45
Gly Ser Arg Ser Glu Gly Glu Gly Glu Ala Ala Ser Ala Asp Asp
              50                  55                  60
```

11

```
Gly Ser Leu Asn Thr Ser Gly Ala Gly Pro Lys Ser Trp Gln Val
            65                  70                  75
Pro Pro Pro Ala Pro Glu Val Gln Ile Arg Thr Pro Arg Val Asn
                80                  85                  90
Cys Pro Glu Lys Val Ile Ile Cys Leu Asp Leu Ser Glu Glu Met
                95                  100                 105
Ser Leu Pro Lys Leu Glu Ser Phe Asn Gly Ser Lys Thr Asn Ala
                110                 115                 120
Leu Asn Val Ser Gln Lys Met Ile Glu Met Phe Val Arg Thr Lys
                125                 130                 135
His Lys Ile Asp Lys Ser His Glu Phe Ala Leu Val Val Val Asn
                140                 145                 150
Asp Asp Thr Ala Trp Leu Ser Gly Leu Thr Ser Asp Pro Arg Glu
                155                 160                 165
Leu Cys Ser Cys Leu Tyr Asp Leu Glu Thr Ala Ser Cys Ser Thr
                170                 175                 180
Phe Asn Leu Glu Gly Leu Phe Ser Leu Ile Gln Gln Lys Thr Glu
                185                 190                 195
Leu Pro Val Thr Glu Asn Val Gln Thr Ile Pro Pro Pro Tyr Val
                200                 205                 210
Val Arg Thr Ile Leu Val Tyr Ser Arg Pro Pro Cys Gln Pro Gln
                215                 220                 225
Phe Ser Leu Thr Glu Pro Met Lys Lys Met Phe Gln Cys Pro Tyr
                230                 235                 240
Phe Phe Phe Asp Val Val Tyr Ile His Asn Gly Thr Glu Glu Lys
                245                 250                 255
Glu Glu Glu Met Ser Trp Lys Asp Met Phe Ala Phe Met Gly Ser
                260                 265                 270
Leu Asp Thr Lys Gly Thr Ser Tyr Lys Tyr Glu Val Ala Leu Ala
                275                 280                 285
Gly Pro Ala Leu Glu Leu His Asn Cys Met Ala Lys Leu Leu Ala
                290                 295                 300
His Pro Leu Gln Arg Pro Cys Gln Ser His Ala Ser Tyr Ser Leu
                305                 310                 315
Leu Glu Glu Glu Asp Glu Ala Ile Glu Val Glu Ala Thr Val
                320                 325
```

<210> 12
<211> 476
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2416366

<400> 12
```
Met Gln Asn Asp Ser Phe His Ser Asp Ser His Met Asp Arg Lys
 1               5                   10                  15
Lys Phe His Ser Ser Asp Ser Glu Glu Glu Glu His Lys Lys Gln
                20                  25                  30
```

```
Lys Met Asp Ser Asp Glu Asp Glu Lys Glu Gly Glu Glu Glu Lys
            35                    40                    45
Val Ala Lys Arg Lys Ala Ala Val Leu Ser Asp Ser Glu Asp Glu
            50                    55                    60
Glu Lys Ala Ser Ala Lys Lys Ser Arg Val Val Ser Asp Ala Asp
            65                    70                    75
Asp Ser Asp Ser Asp Ala Val Ser Asp Lys Ser Gly Lys Arg Glu
            80                    85                    90
Lys Thr Ile Ala Glu Ser Asp Ser Glu Glu Glu Ala Gly Lys Glu Leu
            95                   100                   105
Ser Asp Lys Lys Asn Glu Glu Lys Asp Leu Phe Gly Ser Asp Ser
           110                   115                   120
Glu Ser Gly Asn Glu Glu Glu Asn Leu Ile Ala Asp Ile Phe Gly
           125                   130                   135
Glu Ser Gly Asp Glu Glu Glu Glu Glu Phe Thr Gly Phe Asn Gln
           140                   145                   150
Glu Asp Leu Glu Glu Glu Lys Gly Glu Thr Gln Val Lys Glu Ala
           155                   160                   165
Glu Asp Ser Asp Ser Asp Asp Asn Ile Lys Arg Gly Lys His Met
           170                   175                   180
Asp Phe Leu Ser Asp Phe Glu Met Met Leu Gln Arg Lys Lys Ser
           185                   190                   195
Met Ser Gly Lys Arg Arg Arg Asn Arg Asp Gly Gly Thr Phe Ile
           200                   205                   210
Ser Asp Ala Asp Asp Val Val Ser Ala Met Ile Val Lys Met Asn
           215                   220                   225
Glu Ala Ala Glu Glu Asp Arg Gln Leu Asn Asn Gln Lys Lys Pro
           230                   235                   240
Ala Leu Lys Lys Leu Thr Leu Leu Pro Ala Val Val Met His Leu
           245                   250                   255
Lys Lys Gln Asp Leu Lys Glu Thr Phe Ile Asp Ser Gly Val Met
           260                   265                   270
Ser Ala Ile Lys Glu Trp Leu Ser Pro Leu Pro Asp Arg Ser Leu
           275                   280                   285
Pro Ala Leu Lys Ile Arg Glu Glu Leu Leu Lys Ile Leu Gln Glu
           290                   295                   300
Leu Pro Ser Val Ser Gln Glu Thr Leu Lys His Ser Gly Ile Gly
           305                   310                   315
Arg Ala Val Met Tyr Leu Tyr Lys His Pro Lys Glu Ser Arg Ser
           320                   325                   330
Asn Lys Asp Met Ala Gly Lys Leu Ile Asn Glu Trp Ser Arg Pro
           335                   340                   345
Ile Phe Gly Leu Thr Ser Asn Tyr Lys Gly Met Thr Arg Glu Glu
           350                   355                   360
Arg Glu Gln Arg Asp Leu Glu Gln Met Pro Gln Arg Arg Arg Met
           365                   370                   375
Asn Ser Thr Gly Gly Gln Thr Pro Arg Arg Asp Leu Glu Lys Val
           380                   385                   390
Leu Thr Gly Glu Glu Lys Ala Leu Arg Pro Gly Asp Pro Gly Phe
           395                   400                   405
Cys Ala Arg Ala Arg Val Pro Met Pro Ser Asn Lys Asp Tyr Val
           410                   415                   420
Val Arg Pro Lys Trp Asn Val Glu Met Glu Ser Ser Arg Phe Gln
           425                   430                   435
```

13

```
Ala Thr Ser Lys Lys Gly Ile Ser Arg Leu Asp Lys Gln Met Arg
              440                 445                 450
Lys Phe Thr Asp Ile Arg Lys Lys Ser Arg Ser Ala His Ala Val
              455                 460                 465
Lys Ile Ser Ile Glu Gly Asn Lys Met Pro Leu
              470                 475
```

<210> 13
<211> 366
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2472980

<400> 13

```
Met Ala Ala Ala Tyr Phe Pro Asp Cys Ile Val Arg Pro Phe Gly
  1               5                  10                  15
Ser Ser Val Asn Thr Phe Gly Lys Leu Gly Cys Asp Leu Asp Met
              20                  25                  30
Phe Leu Asp Leu Asp Glu Thr Arg Asn Leu Ser Ala His Lys Ile
              35                  40                  45
Ser Gly Asn Phe Leu Met Glu Phe Gln Val Lys Asn Val Pro Ser
              50                  55                  60
Glu Arg Ile Ala Thr Gln Lys Ile Leu Ser Val Leu Gly Glu Cys
              65                  70                  75
Leu Asp His Phe Gly Pro Gly Cys Val Gly Val Gln Lys Ile Leu
              80                  85                  90
Asn Ala Arg Cys Pro Leu Val Arg Phe Ser His Gln Ala Ser Gly
              95                 100                 105
Phe Gln Cys Asp Leu Thr Thr Asn Asn Arg Ile Ala Leu Thr Ser
             110                 115                 120
Ser Glu Leu Leu Tyr Ile Tyr Gly Ala Leu Asp Ser Arg Val Arg
             125                 130                 135
Ala Leu Val Phe Ser Val Arg Cys Trp Ala Arg Ala His Ser Leu
             140                 145                 150
Thr Ser Ser Ile Pro Gly Ala Trp Ile Thr Asn Phe Ser Leu Thr
             155                 160                 165
Met Met Val Ile Phe Phe Leu Gln Arg Arg Ser Pro Pro Ile Leu
             170                 175                 180
Pro Thr Leu Asp Ser Leu Lys Thr Leu Ala Asp Ala Glu Asp Lys
             185                 190                 195
Cys Val Ile Glu Gly Asn Asn Cys Thr Phe Val Arg Asp Leu Ser
             200                 205                 210
Arg Ile Lys Pro Ser Gln Asn Thr Glu Thr Leu Glu Leu Leu Leu
             215                 220                 225
Lys Glu Phe Phe Glu Tyr Phe Gly Asn Phe Ala Phe Asp Lys Asn
             230                 235                 240
Ser Ile Asn Ile Arg Gln Gly Arg Glu Gln Asn Lys Pro Asp Ser
             245                 250                 255
```

14

```
Ser Pro Leu Tyr Ile Gln Asn Pro Phe Glu Thr Ser Leu Asn Ile
        260                 265                 270
Ser Lys Asn Val Ser Gln Ser Gln Leu Gln Lys Phe Val Asp Leu
        275                 280                 285
Ala Arg Glu Ser Ala Trp Ile Leu Gln Gln Glu Asp Thr Asp Arg
        290                 295                 300
Pro Ser Ile Ser Ser Asn Arg Pro Trp Gly Leu Val Ser Leu Leu
        305                 310                 315
Leu Pro Ser Ala Pro Asn Arg Lys Ser Phe Thr Lys Lys Lys Ser
        320                 325                 330
Asn Lys Phe Ala Ile Glu Thr Val Lys Asn Leu Leu Glu Ser Leu
        335                 340                 345
Lys Gly Asn Arg Thr Glu Asn Phe Thr Lys Thr Ser Gly Lys Arg
        350                 355                 360
Thr Ile Ser Thr Gln Thr
        365
```

<210> 14
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2541640

<400> 14
```
Met Gly Gly Val Gly Val Ala Glu Ala Ala Arg Pro Leu Leu Ser
 1               5                  10                  15
Trp Pro Thr Ile Ser Leu Thr Ile Phe Thr Ala Val Asn Ser Ser
                20                  25                  30
Gln Gly Gly Gly Leu Val Gln Arg Gln Leu Arg Phe His Asn Ser
                35                  40                  45
His Arg Val Leu Cys Arg Arg Cys Pro Cys Pro Pro Thr Pro Ala
                50                  55                  60
Trp Trp Glu Cys Asp Ala Arg Leu Leu Pro Pro Trp Pro Pro
        65                  70                  75
Val Pro Pro Ala Ser Thr Ser Pro Glu Ile Leu Pro Thr Pro His
                80                  85                  90
Leu His Arg Ser Pro His Ala Pro Gly Ala Pro Lys Pro Pro Pro
                95                  100                 105
Asn Pro Thr His Pro Gly Ala Gly Thr Gly Val Ser Glu Leu Leu
                110                 115                 120
Gln Gly Pro Trp Glu Val Ala Gly Thr Gly Ala Ser Cys Ser Leu
                125                 130                 135
Phe His Phe Pro Phe Arg Ile Trp Pro Gly Trp Arg Thr Gly Gln
                140                 145                 150
Asp Gly
```

15

PF-0695-2 CON

<400> 15

```
Met Gly Arg Arg Leu Lys Gly Ala Arg Arg Leu Lys Leu Ser Pro
  1               5                  10                  15
Leu Arg Ser Leu Arg Lys Gly Pro Gly Leu Leu Ser Pro Pro Ser
                 20                  25                  30
Ala Ser Pro Val Pro Thr Pro Ala Val Ser Arg Thr Leu Leu Gly
                 35                  40                  45
Asn Phe Glu Glu Ser Leu Leu Arg Gly Arg Phe Ala Pro Ser Gly
                 50                  55                  60
His Ile Glu Gly Phe Thr Ala Glu Ile Gly Ala Ser Gly Ser Tyr
                 65                  70                  75
Cys Pro Gln His Val Thr Leu Pro Val Thr Val Thr Phe Phe Asp
                 80                  85                  90
Val Ser Glu Gln Asn Ala Pro Ala Pro Phe Leu Gly Ile Val Asp
                 95                 100                 105
Leu Asn Pro Leu Gly Arg Lys Gly Tyr Ser Val Pro Lys Val Gly
                110                 115                 120
Thr Val Gln Val Thr Leu Phe Asn Pro Asn Gln Thr Val Val Lys
                125                 130                 135
Met Phe Leu Val Thr Phe Asp Phe Ser Asp Met Pro Ala Ala His
                140                 145                 150
Met Thr Phe Leu Arg His Arg Leu Phe Leu Val Pro Val Gly Glu
                155                 160                 165
Glu Gly Asn Ala Asn Pro Thr His Arg Leu Leu Cys Tyr Leu Leu
                170                 175                 180
His Leu Arg Phe Arg Ser Ser Arg Ser Gly Arg Leu Ser Leu His
                185                 190                 195
Gly Asp Ile Arg Leu Leu Phe Ser Arg Arg Ser Leu Glu Leu Asp
                200                 205                 210
Thr Gly Leu Pro Tyr Glu Leu Gln Ala Val Thr Glu Ala Pro His
                215                 220                 225
Asn Pro Arg Tyr Ser Pro Leu Pro
                230
```

16

<400> 16

```
Met Glu Val Leu Arg Pro Gln Leu Ile Arg Ile Asp Gly Arg Asn
1               5                   10                  15
Tyr Arg Lys Asn Pro Val Gln Glu Gln Thr Tyr Gln His Glu Glu
                20                  25                  30
Asp Glu Glu Asp Phe Tyr Gln Gly Ser Met Glu Cys Ala Asp Glu
                35                  40                  45
Pro Cys Asp Ala Tyr Glu Val Glu Gln Thr Pro Gln Gly Phe Arg
                50                  55                  60
Ser Thr Leu Arg Ala Pro Ser Leu Leu Tyr Lys His Ile Val Gly
                65                  70                  75
Lys Arg Gly Asp Thr Arg Lys Lys Ile Glu Met Glu Thr Lys Thr
                80                  85                  90
Ser Ile Ser Ile Pro Lys Pro Gly Gln Asp Gly Glu Ile Val Ile
                95                  100                 105
Thr Gly Gln His Arg Asn Gly Val Ile Ser Ala Arg Thr Arg Ile
                110                 115                 120
Asp Val Leu Leu Asp Thr Phe Arg Arg Lys Gln Pro Phe Thr His
                125                 130                 135
Phe Leu Ala Phe Phe Leu Asn Glu Val Glu Val Gln Glu Gly Phe
                140                 145                 150
Leu Arg Phe Gln Glu Glu Val Leu Ala Lys Cys Ser Met Asp His
                155                 160                 165
Gly Val Asp Ser Ser Ile Phe Gln Asn Pro Lys Lys Leu His Leu
                170                 175                 180
Thr Ile Gly Met Leu Val Leu Leu Ser Glu Glu Glu Ile Gln Gln
                185                 190                 195
Thr Cys Glu Met Leu Gln Gln Cys Lys Glu Glu Phe Ile Asn Asp
                200                 205                 210
Ile Ser Gly Gly Lys Pro Leu Glu Val Glu Met Ala Gly Ile Glu
                215                 220                 225
Tyr Met Asn Asp Asp Pro Gly Met Val Asp Val Leu Tyr Ala Lys
                230                 235                 240
Val His Met Lys Asp Gly Ser Asn Arg Leu Gln Glu Leu Val Asp
                245                 250                 255
Arg Val Leu Glu Arg Phe Gln Ala Ser Gly Leu Ile Val Lys Glu
                260                 265                 270
Trp Asn Ser Val Lys Leu His Ala Thr Val Met Asn Thr Leu Phe
                275                 280                 285
Arg Lys Asp Pro Asn Ala Glu Gly Arg Tyr Asn Leu Tyr Thr Ala
                290                 295                 300
Glu Gly Lys Tyr Ile Phe Lys Glu Arg Glu Ser Phe Asp Gly Arg
                305                 310                 315
Asn Ile Leu Lys Leu Phe Glu Asn Phe Tyr Phe Gly Ser Leu Lys
                320                 325                 330
Leu Asn Ser Ile His Ile Ser Gln Arg Phe Thr Val Asp Ser Phe
                335                 340                 345
Gly Asn Tyr Ala Ser Cys Gly Gln Ile Asp Phe Ser
                350                 355
```

<210> 17

17

PF-0695-2 CON

<211> 251
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2850382

<400> 17
Met Glu Pro Gly Glu Glu Leu Glu Glu Glu Gly Ser Pro Gly Gly
 1   5   10   15
Arg Glu Asp Gly Phe Thr Ala Glu His Leu Ala Ala Glu Ala Met
            20   25   30
Ala Ala Asp Met Asp Pro Trp Leu Val Phe Asp Ala Arg Thr Thr
            35   40   45
Pro Ala Thr Glu Leu Asp Ala Trp Leu Ala Lys Tyr Pro Pro Ser
            50   55   60
Gln Val Thr Arg Tyr Gly Asp Pro Gly Ser Pro Asn Ser Glu Pro
        65   70   75
Val Gly Trp Ile Ala Val Tyr Gly Gln Gly Tyr Ser Pro Asn Ser
            80   85   90
Gly Asp Val Gln Gly Leu Gln Ala Ala Trp Glu Ala Leu Gln Thr
            95   100   105
Ser Gly Arg Pro Ile Thr Pro Gly Thr Leu Arg Gln Leu Ala Ile
            110   115   120
Thr His His Val Leu Ser Gly Lys Trp Leu Met His Leu Ala Pro
            125   130   135
Gly Phe Lys Leu Asp His Ala Trp Ala Gly Ile Ala Arg Ala Val
            140   145   150
Val Glu Gly Arg Leu Gln Val Ala Lys Val Ser Pro Arg Ala Lys
            155   160   165
Glu Gly Gly Arg Gln Val Ile Cys Val Tyr Thr Asp Asp Phe Thr
            170   175   180
Asp Arg Leu Gly Val Leu Glu Ala Asp Ser Ala Ile Arg Ala Ala
            185   190   195
Gly Ile Lys Cys Leu Leu Thr Tyr Lys Pro Asp Val Tyr Thr Tyr
            200   205   210
Leu Gly Ile Tyr Arg Ala Asn Arg Trp His Leu Cys Pro Thr Leu
            215   220   225
Tyr Glu Ser Arg Phe Gln Leu Gly Gly Ser Ala Arg Gly Ser Arg
            230   235   240
Val Leu Asp Arg Ala Asn Asn Val Glu Leu Thr
            245   250

<210> 18
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

18

PF-0695-2 CON

<223> Incyte Clone 2929276

<400> 18
Met Ser Ile Tyr Phe Pro Ile His Cys Pro Asp Tyr Leu Arg Ser
1   5   10   15
Ala Lys Met Thr Glu Val Met Met Asn Thr Gln Pro Met Glu Glu
                20   25   30
Ile Gly Leu Ser Pro Arg Lys Asp Gly Leu Ser Tyr Gln Ile Phe
                35   40   45
Pro Asp Pro Ser Asp Phe Asp Arg Cys Cys Lys Leu Lys Asp Arg
                50   55   60
Leu Pro Ser Ile Val Val Glu Pro Thr Glu Gly Glu Val Glu Ser
                65   70   75
Gly Glu Leu Arg Trp Pro Pro Glu Glu Phe Leu Val Gln Glu Asp
                80   85   90
Glu Gln Asp Asn Cys Glu Glu Thr Ala Lys Glu Asn Lys Glu Gln
                95   100   105

<210> 19
<211> 876
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 3033039

<400> 19
Met Thr Met Asp Ala Leu Leu Ala Arg Leu Lys Leu Leu Asn Pro
1   5   10   15
Asp Asp Leu Arg Glu Glu Ile Val Lys Ala Gly Leu Lys Cys Gly
                20   25   30
Pro Ile Thr Ser Thr Thr Arg Phe Ile Phe Glu Lys Lys Leu Ala
                35   40   45
Gln Ala Leu Leu Glu Gln Gly Gly Arg Leu Ser Ser Phe Tyr His
                50   55   60
His Glu Ala Gly Val Thr Ala Leu Ser Glu Gln Asp Pro Gln Arg Ile
                65   70   75
Leu Lys Pro Ala Glu Gly Asn Pro Thr Asp Gln Ala Gly Phe Ser
                80   85   .   90
Glu Asp Arg Asp Phe Gly Tyr Ser Val Gly Leu Asn Pro Pro Glu
                95   100   105
Glu Glu Ala Val Thr Ser Lys Thr Cys Ser Val Pro Pro Ser Asp
                110   115   120
Thr Asp Thr Tyr Arg Ala Gly Ala Thr Ala Ser Lys Glu Pro Pro
                125   130   135
Leu Tyr Tyr Gly Val Cys Pro Val Tyr Glu Asp Val Pro Ala Arg
                140   145   150
Asn Glu Arg Ile Tyr Val Tyr Glu Asn Lys Lys Glu Ala Leu Gln
                155   160   165
Ala Val Lys Met Ile Lys Gly Ser Arg Phe Lys Ala Phe Ser Thr

19

```
                    170                      175                      180
Arg Glu Asp Ala Glu Lys Phe Ala Arg Gly Ile Cys Asp Tyr Phe
                    185                      190                      195
Pro Ser Pro Ser Lys Thr Ser Leu Pro Leu Ser Pro Val Lys Thr
                    200                      205                      210
Ala Pro Leu Phe Ser Asn Asp Arg Leu Lys Asp Gly Leu Cys Leu
                    215                      220                      225
Ser Glu Ser Glu Thr Val Asn Lys Glu Arg Ala Asn Ser Tyr Lys
                    230                      235                      240
Asn Pro Arg Thr Gln Asp Leu Thr Ala Lys Leu Arg Lys Ala Val
                    245                      250                      255
Glu Lys Gly Glu Glu Asp Thr Phe Ser Asp Leu Ile Trp Ser Asn
                    260                      265                      270
Pro Arg Tyr Leu Ile Gly Ser Gly Asp Asn Pro Thr Ile Val Gln
                    275                      280                      285
Glu Gly Cys Arg Tyr Asn Val Met His Val Ala Ala Lys Glu Asn
                    290                      295                      300
Gln Ala Ser Ile Cys Gln Leu Thr Leu Asp Val Leu Glu Asn Pro
                    305                      310                      315
Asp Phe Met Arg Leu Met Tyr Pro Asp Asp Asp Glu Ala Met Leu
                    320                      325                      330
Gln Lys Arg Ile Arg Tyr Val Val Asp Leu Tyr Leu Asn Thr Pro
                    335                      340                      345
Asp Lys Met Gly Tyr Asp Thr Pro Leu His Phe Ala Cys Lys Phe
                    350                      355                      360
Gly Asn Ala Asp Val Val Asn Val Leu Ser Ser His His Leu Ile
                    365                      370                      375
Val Lys Asn Ser Arg Asn Lys Tyr Asp Lys Thr Pro Glu Asp Val
                    380                      385                      390
Ile Cys Glu Arg Ser Lys Asn Lys Ser Val Glu Leu Lys Glu Arg
                    395                      400                      405
Ile Arg Glu Tyr Leu Lys Gly His Tyr Tyr Val Pro Leu Leu Arg
                    410                      415                      420
Ala Glu Glu Thr Ser Ser Pro Val Ile Gly Glu Leu Trp Ser Pro
                    425                      430                      435
Asp Gln Thr Ala Glu Ala Ser His Val Ser Arg Tyr Gly Gly Ser
                    440                      445                      450
Pro Arg Asp Pro Val Leu Thr Leu Arg Ala Phe Ala Gly Pro Leu
                    455                      460                      465
Ser Pro Ala Lys Ala Glu Asp Phe Arg Lys Leu Trp Lys Thr Pro
                    470                      475                      480
Pro Arg Glu Lys Ala Gly Phe Leu His His Val Lys Lys Ser Asp
                    485                      490                      495
Pro Glu Arg Gly Phe Glu Arg Val Gly Arg Glu Leu Ala His Glu
                    500                      505                      510
Leu Gly Tyr Pro Trp Val Glu Tyr Trp Glu Phe Leu Gly Cys Phe
                    515                      520                      525
Val Asp Leu Ser Ser Gln Glu Gly Leu Gln Arg Leu Glu Glu Tyr
                    530                      535                      540
Leu Thr Gln Gln Glu Ile Gly Lys Lys Ala Gln Gln Glu Thr Gly
                    545                      550                      555
Glu Arg Glu Ala Ser Cys Arg Asp Lys Ala Thr Thr Ser Gly Ser
                    560                      565                      570
Asn Ser Ile Ser Val Arg Ala Phe Leu Asp Glu Asp Asp Met Ser
```

20

```
                     575                    580                    585
Leu Glu Glu Ile Lys Asn Arg Gln Asn Ala Ala Arg Asn Asn Ser
                     590                    595                    600
Pro Pro Thr Val Gly Ala Phe Gly His Thr Arg Cys Ser Ala Phe
                     605                    610                    615
Pro Leu Glu Gln Glu Ala Asp Leu Ile Glu Ala Ala Glu Pro Gly
                     620                    625                    630
Gly Pro His Ser Ser Arg Asn Gly Leu Cys His Pro Leu Asn His
                     635                    640                    645
Ser Arg Thr Leu Ala Gly Lys Arg Pro Lys Ala Pro Arg Gly Glu
                     650                    655                    660
Glu Ala His Leu Pro Pro Val Ser Asp Leu Thr Val Glu Phe Asp
                     665                    670                    675
Lys Leu Asn Leu Gln Asn Ile Gly Arg Ser Val Ser Lys Thr Pro
                     680                    685                    690
Asp Glu Ser Thr Lys Thr Lys Asp Gln Ile Leu Thr Ser Arg Ile
                     695                    700                    705
Asn Ala Val Glu Arg Asp Leu Leu Glu Pro Ser Pro Ala Asp Gln
                     710                    715                    720
Leu Gly Asn Gly His Arg Arg Thr Glu Ser Glu Met Ser Ala Arg
                     725                    730                    735
Ile Ala Lys Met Ser Leu Ser Pro Ser Ser Pro Arg His Glu Asp
                     740                    745                    750
Gln Leu Glu Val Thr Arg Glu Pro Ala Arg Arg Leu Phe Leu Phe
                     755                    760                    765
Gly Glu Glu Pro Ser Lys Leu Asp Gln Asp Val Leu Ala Ala Leu
                     770                    775                    780
Glu Cys Ala Asp Val Asp Pro His Gln Phe Pro Ala Val His Arg
                     785                    790                    795
Trp Lys Ser Ala Val Leu Cys Tyr Ser Pro Ser Asp Arg Gln Ser
                     800                    805                    810
Trp Pro Ser Pro Ala Val Lys Gly Arg Phe Lys Ser Gln Leu Pro
                     815                    820                    825
Asp Leu Ser Gly Pro His Ser Tyr Ser Pro Gly Arg Asn Ser Val
                     830                    835                    840
Ala Gly Ser Asn Pro Ala Lys Pro Gly Leu Gly Ser Pro Gly Arg
                     845                    850                    855
Tyr Ser Pro Val His Gly Ser Gln Leu Arg Arg Met Ala Arg Leu
                     860                    865                    870
Ala Glu Leu Ala Ala Leu
                     875
```

<210> 20
<211> 505
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 3039890

21

<400> 20

```
Met Ser Arg Ser Tyr Asn Asp Glu Leu Gln Phe Leu Glu Lys Ile
 1               5                  10                  15
Asn Lys Asn Cys Trp Arg Ile Lys Lys Gly Phe Val Pro Asn Met
                20                  25                  30
Gln Val Glu Gly Val Phe Tyr Val Asn Asp Ala Leu Glu Lys Leu
                35                  40                  45
Met Phe Glu Glu Leu Arg Asn Ala Cys Arg Gly Gly Gly Val Gly
                50                  55                  60
Gly Phe Leu Pro Ala Met Lys Gln Ile Gly Asn Val Ala Ala Leu
                65                  70                  75
Pro Gly Ile Val His Arg Ser Ile Gly Leu Pro Asp Val His Ser
                80                  85                  90
Gly Tyr Gly Phe Ala Ile Gly Asn Met Ala Ala Phe Asp Met Asn
                95                 100                 105
Asp Pro Glu Ala Val Val Ser Pro Gly Gly Val Gly Phe Asp Ile
               110                 115                 120
Asn Cys Gly Val Arg Leu Leu Arg Thr Asn Leu Asp Glu Ser Asp
               125                 130                 135
Val Gln Pro Val Lys Glu Gln Leu Ala Gln Ala Met Phe Asp His
               140                 145                 150
Ile Pro Val Gly Val Gly Ser Lys Gly Val Ile Pro Met Asn Ala
               155                 160                 165
Lys Asp Leu Glu Glu Ala Leu Glu Met Gly Val Asp Trp Ser Leu
               170                 175                 180
Arg Glu Gly Tyr Ala Trp Ala Glu Asp Lys Glu His Cys Glu Glu
               185                 190                 195
Tyr Gly Arg Met Leu Gln Ala Asp Pro Asn Lys Val Ser Ala Arg
               200                 205                 210
Ala Lys Lys Arg Gly Leu Pro Gln Leu Gly Thr Leu Gly Ala Gly
               215                 220                 225
Asn His Tyr Ala Glu Ile Gln Val Val Asp Glu Ile Phe Asn Glu
               230                 235                 240
Tyr Ala Ala Lys Lys Met Gly Ile Asp His Lys Gly Gln Val Cys
               245                 250                 255
Val Met Ile His Ser Gly Ser Arg Gly Leu Gly His Gln Val Ala
               260                 265                 270
Thr Asp Ala Leu Val Ala Met Glu Lys Ala Met Lys Arg Asp Lys
               275                 280                 285
Ile Ile Val Asn Asp Arg Gln Leu Ala Cys Ala Arg Ile Ala Ser
               290                 295                 300
Pro Glu Gly Gln Asp Tyr Leu Lys Gly Met Ala Ala Ala Gly Asn
               305                 310                 315
Tyr Ala Trp Val Asn Arg Ser Ser Met Thr Phe Leu Thr Arg Gln
               320                 325                 330
Ala Phe Ala Lys Val Phe Asn Thr Thr Pro Asp Asp Leu Asp Leu
               335                 340                 345
His Val Ile Tyr Asp Val Ser His Asn Ile Ala Lys Val Glu Gln
               350                 355                 360
His Val Val Asp Gly Lys Glu Arg Thr Leu Leu Val His Arg Lys
               365                 370                 375
Gly Ser Thr Arg Ala Phe Pro Pro His His Pro Leu Ile Ala Val
               380                 385                 390
Asp Tyr Gln Leu Thr Gly Gln Pro Val Leu Ile Gly Gly Thr Met
```

22

```
                    395                     400                     405
Gly Thr Cys Ser Tyr Val Leu Thr Gly Thr Glu Gln Gly Met Thr
                    410                     415                     420
Glu Thr Phe Gly Thr Thr Cys His Gly Ala Gly Arg Ala Leu Ser
                    425                     430                     435
Arg Ala Lys Ser Arg Arg Asn Leu Asp Phe Gln Asp Val Leu Asp
                    440                     445                     450
Lys Leu Ala Asp Met Gly Ile Ala Ile Arg Val Ala Ser Pro Lys
                    455                     460                     465
Leu Val Met Glu Glu Ala Pro Glu Ser Tyr Lys Asn Val Thr Asp
                    470                     475                     480
Val Val Asn Thr Cys His Asp Ala Gly Ile Ser Lys Lys Ala Ile
                    485                     490                     495
Lys Leu Arg Pro Ile Ala Val Ile Lys Gly
                    500                     505
```

<210> 21
<211> 1929
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 1841446

<400> 21
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cggaagcaaa ggagccaaga ccatggcgaa agccggggat aagagcagca gcagcgggaa   60
gaaaagtcta aaacggaaag ccgctgccga agaacttcag gaggctgcag gcgctgggga  120
tggggcgacg gaaaacgggg tccaaccccc gaaagcggct gcctttccgc caggctttag  180
catttcggag attaaaaaca aacagcggcg acacttaatg ttcacgcggt ggaaacagca  240
gcagcggaag gaaaagttgg cagctaagaa aaaacttaaa aaagaaagag aggctcttgg  300
cgataaggct ccaccaaagc ctgtacccaa gaccattgac aaccagcgag tgtatgatga  360
aaccacagta gaccctaatg atgaagaggt cgctatgat gaagctacag atgaatttgc  420
ttcttacttc aacaaacaga cttctcccaa gattctcatc acaacatcag atagacctca  480
tgggagaaca gtacgactct gtgaacagct ctccacagtt ataccaaact cacatgttta  540
ttacagaaga ggactggctc tgaaaaaaat tattccacag tgcatcgcaa gagatttcac  600
agacctgatt gttattaatg aagatcgtaa aaccccaaat ggacttattt tgagtcactt  660
gccaaatggc ccaactgctc attttaaaat gagcagtgtt cgtcttcgta aagaaattaa  720
gagaagaggc aaggacccca cagaacacat acctggaaata attctgaata attttacaac  780
acggctgggt cattcaattg gacgtatgtt tgcatctctc tttcctcata atcctcaatt  840
tatcggaagg caggttgcca cattccacaa tcaacgggat tacatattct tcagatttca  900
cagatacata ttcaggagtg aaaagaaagt gggaattcag gaacttggac cacgtttttac  960
cttaaaatta aggtctcttc agaaaggaac ctttgattct aaatatggag agtatgaatg 1020
ggtccataag ccccgggaaa tggatacaag tagaagaaaa ttccatttat aaagtactga 1080
gagaatgata ttggattttg ctgaacaggc ctatcttgaa ctttggtaaa ttatttttga 1140
cagaatactc ttttcaaaat ggcatttgct gatttcataa acctttcacg tctggacgaa 1200
ttaccaaatg ccatgaattg ccactgtgtg tttatgtaga aaatacaaat aaaagttatt 1260
ttgatggctt aggtttcctt aaacttagtt ctcttgtttt tgggtaactg tgaataatta 1320
agttgaactt aagattcaga ttaactttcc tatttgcata gaacacatga gaggaataaa 1380
atggttggta aatattggct aacccttgat ttttatacca gattaacctt ggattcccag 1440
tgtctggcac agttttaata gcttaaatgg aggccaggtt tctggatgtt ttaacattct 1500
```

23

```
cttaagcctt cagaagggta aaaaatttaa agcaaaatga tctaccaggg tttaaagcaa 1560
agttgcaaat tactgaagct aatctttgct tcctgatttt gaggtttttg gtttttgtg 1620
cccacgttgt ggggagctct tttttacctc attacatggt gctgtagtac tccattcagg 1680
cactgaaaca aagttaaccc tataagtaac tcatggatgg aaaccgtag aacttaacag 1740
cctcctcctg accttaaaag aataaaggtt cacagtttac ctttaattcc ctagcagtct 1800
tgccagatgt atggcataaa gtcatgtgag aagagtaggt ggaaaaaact gtacaaactt 1860
aaccccttca ggtgttcaga acagattaat ataccatgta tttaataccа ataataatgc 1920
aaaataaag                                                         1929
```

```
<210> 22
<211> 2113
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 1850310

<400> 22
ctgccacgcc actgtgtcat gaaggaaagt gaaagggaac gaggaagtag gaatgcccac   60
gctcgttgac tccgtgggtg aatacagcag ttaggacata cacaccatca cctttgaaag  120
tgcttgtttg ggggagggaa ggacatacgg gtaactagaa ctacccagcg agtcgtccag  180
aggagaggat caggtttgag tcaggaggct ccctgtactg gagtcgtccc actattcctc  240
aagaaatctt agaaccagct tgtgaggaaa aacatttttt aatgtaataa aaatatgcca  300
ttattctttg aaatgccaaa tgatataaat attttgccta atacatattt attgtagatg  360
aaatgcactc ttctcgatga ggcctcgatt tgaatcaatg gggtgggcca caggaaatgt  420
cagaggaacc agaactcaga actcttcctc ctggaccttt cttccctttcc cttggaggta  480
tcccttttgaa tcaggcctct ctcttctcat cagtctgtag cttcccccct tgtataacct  540
gctttcctttt ttacatttat taaaagtgga ttttgtaaaa gcatttcatt gacacgcag  600
ctatcacaga caatggaatt cgtcagtggt ggtaagactg aaatcctgat gcttttcaca  660
cttcttgtct cttgctatgt atttctgcct ctagccttgc catgtttttgc ctttttttt  720
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24

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> Incyte Clone 1911421

<400> 24
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PF-0695-2 CON

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<212> DNA
<213> Homo sapiens

26

<220>
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<223> Incyte Clone 1928920

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<213> Homo sapiens

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27

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte Clone 2212732

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29

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<213> Homo sapiens

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<211> 1888
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<213> Homo sapiens

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31

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<222> 1892
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte Clone 2472980

<400> 33
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ccttgacaag ttccgaactc ctttatatat atggtgccct agactcaaga gtgagagcct   420
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cccctattct tccaacacta gattccttaa aaaccctagc agatgcagaa gataaatgtg   600
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PF-0695-2 CON

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<213> Homo sapiens

<220>
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<223> Incyte Clone 2541640

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<210> 35
<211> 1763
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<213> Homo sapiens

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<222> 1612,1613, 1737, 1745
<223> a or g or c or t, unknown, or other

<220>
<221> misc_feature
<223> Incyte Clone 2695204

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33

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> Incyte Clone 2850382

<400> 37
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<211> 2930
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone 2929276

<400> 38
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36

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37

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